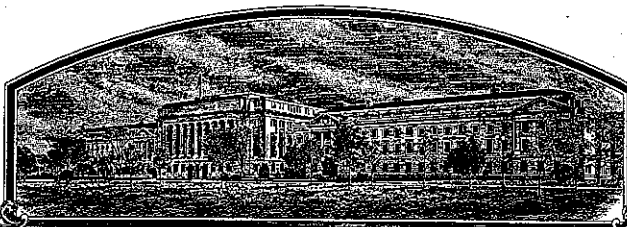


No.

200200003



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pure Seed Testing, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

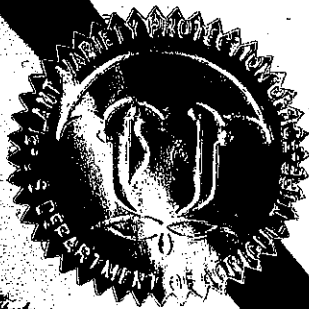
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW, NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR PLANT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (34 U.S.C. 2321 ET SEQ.)

RYEGRASS, PERENNIAL

'Quick Trans'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this nineteenth day of November, in the year two thousand and four.



*Alfred*  
*Alfred*

*Foreman*  
Agriculture


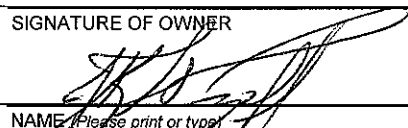
Plant Variety Protection Office  
Marketing Service

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE  
(Instructions and information collection burden statement on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER <b>Pure Seed Testing, Inc.</b>		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME <b>PST-3BK</b>		3. VARIETY NAME <b>Quick Trans</b>	
4. ADDRESS (Street and No., or RFD No., City, State, and ZIP Code, and Country) <b>P.O. Box 449 Hubbard, OR 97032</b>		5. TELEPHONE (include area code) <b>(503) 651-2130</b>		FOR OFFICIAL USE ONLY PVPO NUMBER <b>200200003</b>	
		6. FAX (include area code) <b>(503) 263-0703</b>		FILING DATE <b>October 3, 2001</b>	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) <b>Corporation</b>		8. IF INCORPORATED, GIVE STATE OF INCORPORATION <b>Oregon</b>		9. DATE OF INCORPORATION <b>1975</b>	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) <b>Crystal Rose-Fricker Pure Seed Testing, Inc. P.O. Box 449 Hubbard, OR 97032</b>				FILING AND EXAMINATION FEES: <b>\$ 2705</b> DATE <b>10/3/2001</b> CERTIFICATION FEE: <b>\$ 432-</b> DATE <b>9/27/04</b>	
11. TELEPHONE (Include area code) <b>(503) 651-2130</b>		12. FAX (Include area code) <b>(503) 263-0703</b>		13. E-MAIL <b>crystal@turf-seed.com</b>	
				14. CROP KIND (Common Name) <b>Perennial Ryegrass</b>	
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)			19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act		
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety			<input type="checkbox"/> YES (If "yes," answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no," go to item 22)		
b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness			20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety			IF YES, WHICH CLASSES? <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED		
d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional)			21. DOES THE OWNER SPECIFY THAT THE CLASSES BE LIMITED AS TO NUMBER OF GENERATIONS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership			IF YES, SPECIFY THE NUMBER 1, 2, 3, etc. <input checked="" type="checkbox"/> 6 <input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> 8		
f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)			(If additional explanation is necessary, please use the space indicated on the reverse.)		
g. <input checked="" type="checkbox"/> Filing and Examination fee (\$2,705), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)					
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U.S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)			23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)		
24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue will be deposited in a public repository and maintained for the duration of the certificate.					
The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.					
Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER 			SIGNATURE OF OWNER 		
NAME (Please print or type) <b>Crystal Rose-Fricker</b>			NAME (Please print or type) <b>Joseph K. Wipff, Ph.D.</b>		
CAPACITY OR TITLE <b>President</b>		DATE <b>October 1, 2001</b>		CAPACITY OR TITLE <b>Taxonomist/Plant Breeder</b>	
				DATE <b>October 1, 2001</b>	

**GENERAL:** To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the Certificate.

## Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvp.htm>

## ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;  
(2) the details of subsequent stages of selection and multiplication;  
(3) evidence of uniformity and stability; and  
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified.
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:  
(1) identify these varieties and state all differences objectively;  
(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences;  
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
21. **CONTINUED FROM FRONT** (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. **CONTINUED FROM FRONT** (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)  
10/3/00 sold 20# to United Horticultural Supply and 10/18/00 sold 500# to High Tech.

23. **CONTINUED FROM FRONT** (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

**NOTES:** It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the applicant/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center—East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14<sup>th</sup> and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (2-99) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (6-98) which is obsolete.

**Exhibit A.****Origin and Breeding History of PST-3BK**

Quick Trans perennial ryegrass is an advanced generation synthetic selected from perennial ryegrass plants crossed with annual ryegrass plants. Plants were selected for perennial type growth habit and early maturity. Quick Trans traces its parentage to selections from Quickstart and Roadrunner (see attached flow chart).

In Spring 1997, five clones of perennial ryegrass selected for early maturity and dark green color (2KS population) and four clones of annual ryegrass found as a contaminant in a Kentucky 31 seed yield trial plot were placed into an isolated polycross designated 3AK. Seed was harvested from each parental clone and seeds from these nine clones were used to establish a 1,050 spaced-plant nursery in fall 1997.

In the spring 1998, 23 clones were selected out of the progeny from the perennial maternal clones of 3AK for perennial habit, disease resistance, dark green color and early maturity, and moved into an isolated polycross designated PST-3BK. All these clones trace back maternally to five clones of the 2KS population.

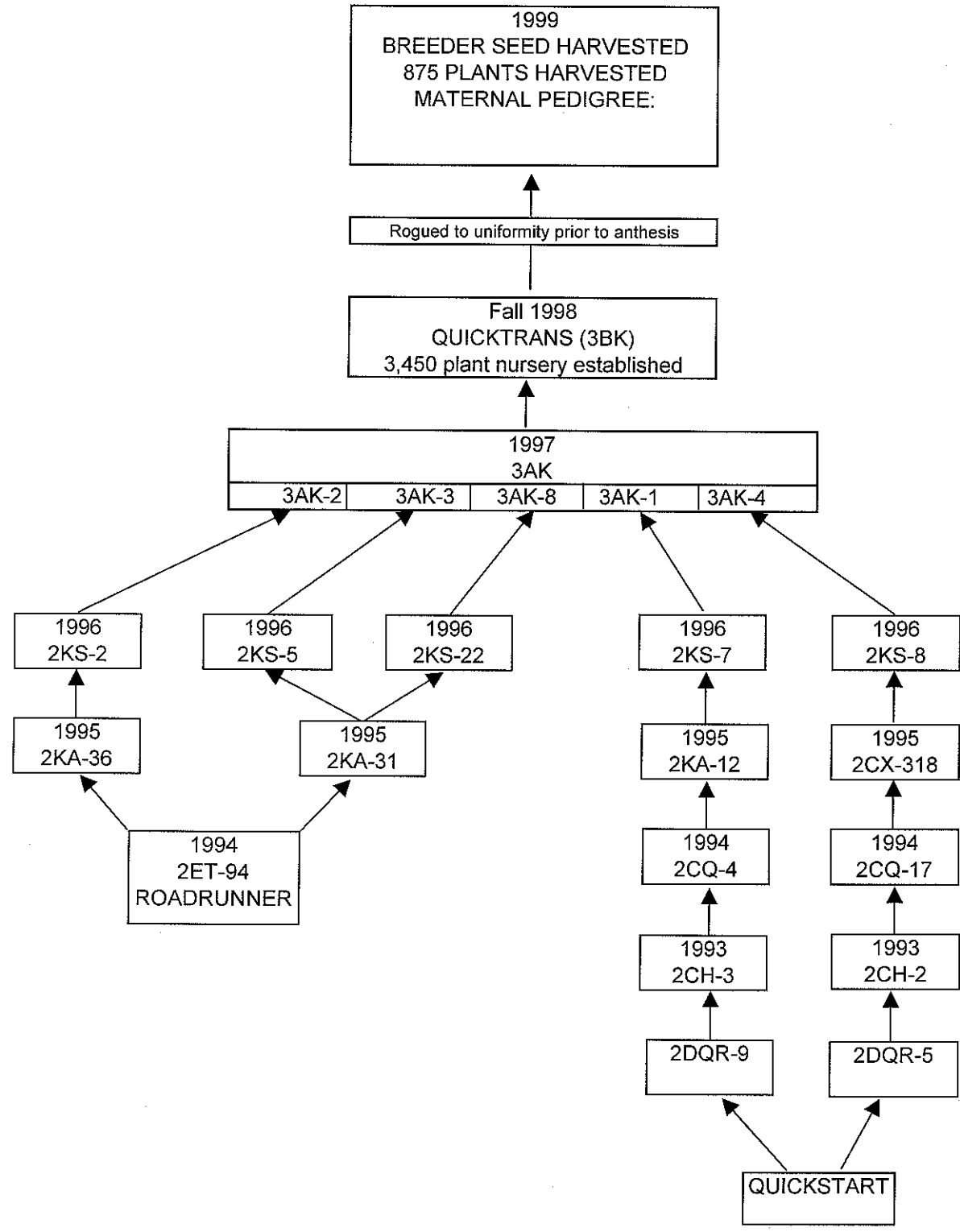
The five parental clones from the population 2KS trace their origins to the following maternal sources.

- 2KS-2, -5, and -22 were from the population 2KA which traces its origin to 'Roadrunner'.
- 2KS-7 was from population's 2KA, 2CQ, and 2CH that trace its origin to 'Quickstart'.
- 2KS-8 was from population's 2CX, 2CQ, and 2CH that traces its origin to 'Quickstart'.

In the fall of 1998, seed from the 23 clones were used to establish an isolated spaced-plant nursery of 3,450 plants near Hubbard, OR. In the spring 1999, plants were removed from this nursery, prior to anthesis, with a high susceptibility to disease and to increase uniformity of plant type and maturity. Eight hundred seventy-five plants were harvested during the summer of 1999 to produce the first breeder seed of Quick Trans (PST-3BK).

Seed production of Quick Trans is limited to three generations of increase from breeder seed, one each of foundation, registered and certified. Quick Trans is a stable and uniform variety. Breeder seed is maintained by Pure Seed Testing, Inc. No off-types or variants have been observed in the reproduction or multiplication from breeder seed to foundation seed. Quick Trans perennial ryegrass and the parents of Quick Trans have produced turf and seed fields of equal quality, acceptable uniformity and good stability.

# BREEDER HISTORY FOR QUICKTRANS (PST-3BK) FLOW CHART



**Exhibit B.****Novelty Statement for PST-3BK Perennial Ryegrass**

Quick Trans (PST-3BK) is most similar to Manhattan II, however, close comparison shows the following differences.

1. Quick Trans has a heading date of at least 14 days earlier than Manhattan II (Tables 1 and 2).
2. Quick Trans has a plant height at least 5.4 cm shorter than Manhattan II (Tables 3 and 4).
3. Quick Trans has a spike length at least 3.3 cm shorter than Manhattan II (Tables 3 and 4).
4. Quick Trans has at least 3.1 spikelets fewer per spike than Manhattan II (Tables 3 and 4).
5. Quick Trans has at least 0.9 more spikelets per spike than Manhattan II (Tables 3 and 4).
6. Quick Trans has a tiller leaf length at least 2.4 cm shorter than Manhattan II (Tables 3 and 4).
7. Quick Trans has a tiller leaf width at least 0.2 mm narrower than Manhattan II (Tables 3 and 4).

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY PROGRAM  
PLANT VARIETY PROTECTION OFFICE  
BELTSVILLE, MD 20705

EXHIBIT C  
(RYEGRASS)

OBJECTIVE DESCRIPTION OF VARIETY  
RYEGRASS  
(*Lolium* spp.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
Pure Seed Testing, Inc.	PST-3BK	Quick Trans
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)		FOR OFFICIAL USE ONLY
P.O. Box 449 Hubbard, OR 97032		PVPO NUMBER 200200003

Place the appropriate number that describes the varietal characteristics of this variety in the boxes below. Use leading zeroes when necessary (e.g. 089). Descriptions of characters should represent those that are typical for the variety. Ranges may be given also. Measured data should be for SPACED PLANTS. Give additional description for all characteristics that cannot be adequately described in the form below. Append all pertinent comparative trial and evaluation data. The symbol "▲" indicates decimal.

1. SPECIES:

- ☒ 1 = *L. multiflorum* (annual or italian: includes Westerwoldicum)      2 = *L. perenne* (perennial)      3 = *L. rigidum* (includes Wimmeria)
- 4 = Hybrid (of species): \_\_\_\_\_      5 = Other (Please specify): \_\_\_\_\_

2. PLOIDY:

- ☒ 1 = Diploid      2 = Tetraploid      3 = Other (Please specify): \_\_\_\_\_

3. DURATION:

- ☒ 1 = Annual or Biennial      2 = Short lived perennial (3-4 years)      3 = Perennial (more than 4 years)

STANDARD CULTIVARS

- 1 = GULF      2 = WIMMERIA 62      3 = LINN      4 = PELO  
5 = NORLEA      6 = ABERYSTWYTH S-23      7 = MANHATTAN II      8 = PENNFINE

4. MATURITY (50% HEADED) Use standards from above for comparison: (Table 1)

- ☒ 1 = Very Early      3 = Early        DAYS EARLIER THAN ...      ☒ 3 STANDARD CULTIVAR  
 = Medium      7 = Late                
D CULTIVAR      D CULTIVAR

5. MATURE PLANT HEIGHT (Use standard cultivars from above): (Table 3)

- cm High         cm Shorter than.....      ☒ 7 STANDARD CULTIVAR  
   cm Taller than.....       STANDARD CULTIVAR

6. **PERCENT WINTER DAMAGE** (estimated as percent of the area appearing dead. Use standard cultivars from above for comparison):

200200003

Percent Damage of Application Cultivar

Percent Damage of .....  STANDARD CULTIVAR

7. **TURF DENSITY** (Use standard cultivars from above): 12.7 cm section (Table 4)

Tillers per 100 square cm

Less tillers per 100 square cm than ...  STANDARD CULTIVAR

More tillers per 100 square cm than ...  STANDARD CULTIVAR

8. **FLAG LEAF** (at full growth, use standard cultivars from above): (Table 3)

cm Length (from ligule to tip)  mm Width (at widest point)

cm Shorter than .....  STANDARD CULTIVAR

cm Longer than .....  STANDARD CULTIVAR

mm Narrower than .....  STANDARD CULTIVAR

mm Wider than .....  STANDARD CULTIVAR

Flag Leaf at Boot Stage  
1 = Deflexed  
3 = Recurved  
5 = Horizontal  
7 = Semi-Erect  
9 = Erect

9. **LEAVES:**

Vernation: 1 = Leaves rolled in young shoots 2 = Leaves semi-rolled (folded with rolled edges)  
3 = Leaves folded in young shoots

% Plants with anthocyanin in lower leaf sheath

Foliage Color: 1 = Yellow Green 4 = Dark Green  
2 = Medium Green  
3 = Blue Green

10. **SPIKE:** (Table 3)

mm Spike length (tip to internode below lowest floret)

mm Shorter than .....  STANDARD CULTIVAR

mm Longer than .....  STANDARD CULTIVAR

mg per ten spikes (trimmed to internode below lowest floret)

mg lighter per ten spikes than .....  STANDARD CULTIVAR

mg heavier per ten spikes than .....  STANDARD CULTIVAR

florets per spikelet

PERCENTAGE OF PLANTS WITH:

Rachis:  % Smooth  % Rough

Spike Color:  % Green  % Purple

Lemma:  % Awned

mm Awn length  mm Glume length



- ☐ 2 = Spikelet length nearly equal to outer glumes  
☐ 2 = Spikelet length much longer than outer glumes

## 11. COLEOPTILE:

☐☐☐ % Plants with anthocyanin in coleoptile No data

## 12. ANTHHER COLOR:

☐☐☐ % Plants with white anthers ☐1☐0☐0 % Plants with yellow anthers  
☐☐☐ % Plants with purple anthers

## 13. ROOT AND PLANT CHARACTERS:

☐0☐0☐0 % Plants with prostrate growth habit  
☐0☐0☐0 % Plants with fluorescent roots  
☐1☐0☐0 % Plants with upright growth habit

## 14. SEED:

☐1☐6☐0☐0 mg per 1000 seeds ☐4☐5☐5 mm Total Length of 10 seeds ☐1☐1☐0 mm Total Width of 10 seeds

## 15. DISEASE (0 = Not Tested, 2 = Highly Susceptible, 4 = Moderately Susceptible, 6 = Moderately Resistant, 8 = Highly Resistant)

☐7 Crown Rust (*Puccinia coronata*) ☐6 Dollar Spot (*Sclerotinia*)  
☐6 Brown Patch (*Rhizoctonia*) ☐6 Leaf Spot (*Helminthosporium*)  
☐7 Mildew ☐0 Snow Mold (*Typhula*)  
☐6 Red Thread (*Corticium*) ☐ Other (Please Specify): \_\_\_\_\_

## 16. INSECT (0 = Not Tested, 2 = Highly Susceptible, 4 = Moderately Susceptible, 6 = Moderately Resistant, 8 = Highly Resistant)

☐0 Please Specify: \_\_\_\_\_

## 17. Give resemblance value in left column and variety code number in right column for variety with which comparison is made (1 = less than, 2 = same as, 3 = more erect, more resistant, denser, more persistent, darker or greater height.):

Resemblance	Character	Similar Variety
<input type="checkbox"/> 3	Plant Habit (erectness)	<input type="checkbox"/> 3 1 = GULF
<input type="checkbox"/> 3	Tillering	<input type="checkbox"/> 3 2 = WIMMERIA 62
<input type="checkbox"/> 2	Winter hardiness	<input type="checkbox"/> 3 3 = LINN
<input type="checkbox"/> 2	High Temperature Stress Resistance	<input type="checkbox"/> 3 4 = PELO
<input type="checkbox"/> 3	Turf Persistence	<input type="checkbox"/> 3 5 = NORLEA
<input type="checkbox"/> 3	Plant Color	<input type="checkbox"/> 3 6 = ABERYSTWYTH S-23
<input type="checkbox"/> 1	Vertical Seeding Growth Rate	<input type="checkbox"/> 3 7 = MANHATTAN
<input type="checkbox"/> 3	Crown Density	<input type="checkbox"/> 3 8 = PENNFINE
<input type="checkbox"/> 3	Mower Shredding Resistance	<input type="checkbox"/> 3

200200003

18. GIVE AREA OF ADAPTATION AND INTENDED USE: \_\_\_\_\_
19. GIVE AREA TEST RESULTS PRESENTED FROM: \_\_\_\_\_
20. COMMENTS: \_\_\_\_\_

**Exhibit D.****Additional Description of PST-3BK Perennial Ryegrass**

1. Quick Trans has excellent transition and turf quality and good color in overseeding trials over dormant bermudagrass (Table 5).
2. Quick Trans has good resistance to stem rust (Table 6).
3. Quick Trans has good resistance to red thread (Table 7).
4. Quick Trans has good resistance to leaf spot and crown rust (Table 8).

Table 1. 2000 mean initial heading dates for entries in a perennial ryegrass spaced-plant trial planted fall of 1999 near Hubbard, OR.

<u>Entry</u>	<u>Mean</u>
Linn	25 April
<b>Quick Trans (3BK)</b>	<b>25 April</b>
Pennfine	02 May
Shining Star	03 May
2CRR	08 May
Manhattan II	09 May
Saturn II x Palmer III	09 May
LRF 98-4-38	10 May
Pinnacle	10 May
2RT	10 May
2CRR Bulk	11 May
Catalina	12 May
ABT-99-834	13 May
2A6E x Brightstar II	13 May
2CRC	13 May
Brightstar II	13 May
Manhattan 3	13 May
PST-2A6B	13 May
Prizm x LRF	13 May
ABT-94-709	14 May
ABT-99-724	14 May
2JH	14 May
ABT-99-721	14 May
2NC-15	14 May
2RU	15 May
2R4	15 May
LRF-98-437	15 May
2CRL	15 May
2BR	15 May
Manhattan IV	16 May
PST-CATS	16 May
ABT-99-960	16 May
Chaparral E-	17 May
LRF-98-439	18 May
2LA Rusty	19 May
C8-9-216	19 May
2SBE	19 May
2SBE C-Lot	20 May
2SBE B-Lot	20 May
2LA	22 May
2L96	22 May
2SLW	22 May
2SLX	23 May
2L96 Rusty	24 May
Manhattan	26 May
Rhapsody	27 May
Evita	28 May
Elka	01 June
<b>LSD (0.05)</b>	<b>3 days</b>

Table 2. 2001 mean initial heading dates for entries in a perennial ryegrass seed yield trial seeded fall of 2000 near Hubbard, OR.

Entry	Mean
Elka	25 May
2UF	22 May
2VL-00	20 May
Manhattan II	20 May
2SBE	13 May
2L96	13 May
2LA	13 May
Manhattan 4	12 May
2BR	12 May
Navajo	12 May
2JH	12 May
Brightstar	12 May
Brightstar SLT	11 May
Manhattan III	11 May
2M4	11 May
Omega III	11 May
Prizm+LRF	11 May
Windstar	11 May
Chaparral	10 May
Saturn II	10 May
Catalina	10 May
Windstar BS	10 May
Pinnacle	10 May
Brightstar II	10 May
Sonata BS	09 May
Palmer III	09 May
Yorktown II	09 May
Citation III	09 May
Repell II	08 May
2CRR	08 May
Checkmate	07 May
PG-939	06 May
Arena	06 May
Roadrunner	05 May
Sunrye	04 May
Stardance	03 May
Charger	03 May
Charger II	03 May
Endurance	01 May
Linn	30 April
<b>Quick Trans</b>	<b>25 April</b>
<b>LSD (0.05)</b>	<b>3 days</b>

Table 3. 2001 mean morphological measurements for entries in a perennial ryegrass spaced-plant trial planted fall of 1999 near Hubbard, OR.

Entry	Plant Height (cm)	Flag Leaf		Spike Length (mm)	Length of Spikelet		Length of Outer Glume (mm)	Spikelets per Spike (#)	Florets per Spikelet (#)	Awn		Tiller Leaf		Flag Leaf		Tillers/ 12.7 cm Row (#)
		Height (cm)	Sheath Length (cm)		Length of Spikelet (mm)	Length of Spikelet (mm)				Length (mm)	Length (mm)	Length (cm)	Width (mm)	Length (cm)	Width (mm)	
Manhattan II	71.6	40.4	11.0	19.6	11.1	7.2	25.4	6.5	0.2	17.6	3.8	12.8	4.1	13.4	3.7	711.3
Quick Trans	66.2	37.9	10.3	16.3	11.0	7.0	21.7	8.0	0.0	15.2	3.5	13.4	3.7	13.4	3.7	---
LSD (0.05)	2.4	1.9	0.8	1.2	0.6	0.4	2.2	0.5	0.2	1.1	0.3	1.1	0.3	1.1	0.3	155.1

Table 4. 2000 mean morphological measurements for entries in a perennial ryegrass spaced-plant trial planted fall of 1999 near Hubbard, OR.

Entry	Plant Height (cm)	Spike Length (cm)	Spikelets/ Spike (#)	Florets/ Spikelet (#)	Tiller Leaf		Tiller Count (#/12.7 cm Row)
					Length (cm)	Width (mm)	
Manhattan II	69.7	21.1	20.6	6.9	15.6	2.6	437.8
Quick Trans (3BK)	56.1	13.7	17.5	7.8	11.7	2.4	472.7
LSD (0.05)	4.0	1.9	1.4	0.6	1.0	0.2	73.9

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Table 5. Mean turf quality, color, and percentage cool-season grass ratings for entries in a winter overseeding turf trial seeded fall of 1999 at West Coast Turf Sod Farm near Scottsdale, AZ. (9=ideal quality; dark green color)

<u>Entry</u>	<u>Turf Quality</u> <u>(through 10 May,</u> <u>2000)</u>	<u>Color</u> <u>(10 May,</u> <u>2000)</u>	<u>% Cool-Season Grass</u> <u>(10 May, 2000)</u>
PST-2BR	7.2	7.7	63.3
PST-2CRL	7.0	7.3	63.3
PST-2R4	5.4	4.7	53.3
PST-2A6B	6.5	6.0	50.0
PST-2CRR	5.9	5.3	48.3
Winterplay <i>Poa trivialis</i>	4.1	2.7	48.3
Winterstar <i>Poa trivialis</i>	4.4	3.3	46.7
21N Bulk	6.3	7.0	45.0
PST-22L	5.6	6.7	45.0
Chaparral	6.9	5.3	45.0
Brightstar II	5.7	5.0	43.3
PST-2LA	5.3	5.3	43.3
PST-2SBE	5.7	6.0	41.7
PST-2M4	5.1	4.7	40.0
Citation III	6.1	6.0	40.0
30% Winterstar, 70% Charger II	4.6	3.3	38.3
30% Winterplay, 70% Brightstar II	4.6	3.3	38.3
PST-2L96	5.6	5.7	36.7
PST-22M	5.9	5.3	36.7
Charger II	5.0	4.7	36.7
PST-2JH	5.2	4.3	36.7
PST-CATS	6.1	6.0	36.7
Quickstart	4.7	4.0	35.0
2QTL Bulk	5.2	4.7	35.0
Catalina	5.7	4.7	35.0
22E Bulk	5.8	4.0	35.0
30% Winterstar, 70% Brightstar II	4.6	4.7	35.0
Alliance	4.6	4.7	33.3
PST-2SLX	6.1	5.3	33.3
PST-2RT	4.8	4.0	33.3
2QTE Bulk	4.8	4.7	30.0
Manhattan 3	4.8	4.3	28.3
Sunrye	4.7	2.7	28.3
Charger	4.4	3.7	26.7
10% Shade Star, 90% Brightstar II	4.5	4.0	26.7
5% Shade Star, 95% Brightstar II	5.7	6.0	26.7
2QTM Bulk	5.2	4.3	23.3
PST-3BKM	6.1	4.7	21.7
<b>Quick Trans</b>	<b>6.0</b>	<b>3.7</b>	<b>21.7</b>
CDM-99 crested dogtail	3.9	2.3	20.0
2AP Bulk intermediate ryegrass	4.0	3.3	18.3
30G intermediate ryegrass	2.8	2.0	16.7
<b>LSD (0.05)</b>	<b>0.8</b>	<b>1.6</b>	<b>17.6</b>

Table 6. Perennial Ryegrass Data

Entry	1999 Perennial Ryegrass Single Row Commercial NTEP Seed Yield Trial	1999 Perennial Ryegrass Turf Trial
	2000 Stem Rust 9=No Rust AVG.	2000 Mean Turf Quality
PST -2CRL	8.0	6.5
PST- 216	8.0	5.1
PST- 2CRR	8.0	5.4
<b>QUICK TRANS</b>	<b>8.0</b>	<b>4.7</b>
PST -2SBE	7.8	5.6
PST-2LA	7.8	5.7
PST -CATS	7.5	5.2
PST -2M4	7.3	5.7
PST- 2SLX	7.0	5.7
CITATION FORE	6.8	6.8
BRIGHTSTAR SLT	6.8	6.1
ABT 99-4-633	6.5	6.0
MANHATTAN 3	6.5	4.6
CATALINA	6.3	5.6
ABT 94-4-709	6.3	5.0
CHARGER II	6.3	5.1
WILMINGTON	6.0	5.5
BARLENNIUM PRG	6.0	5.7
MP 103	5.8	5.3
LINE DRIVE PIR	5.8	4.9
ABT 99-4-461	5.5	5.6
ASCEND	5.5	4.6
PASSPORT	5.5	5.0
PICK PR 194	5.3	5.2
PACE PRG	5.0	5.2
ABT 99-4-629	5.0	5.1
PROMISE	4.8	5.8
BUCCANEER	4.8	3.6
PREMIER	4.8	4.3
ABT 99-4-834	4.5	5.5
CIS PR 75	4.3	5.1
057 MT. VIEW PRATUM	4.3	5.2
DIVINE	4.3	4.7
ALLSPORT	4.3	4.7
FIESTA 3	4.0	5.0
CIS PR 78	3.8	6.3
PIROUETTE	3.8	5.0
CIS PR 80	3.8	5.1
SRX 4RHT	3.5	5.9
SRX 4820	3.5	5.9
PALMER III	3.3	5.5
PEARL SL	3.3	5.3
HEADSTART	3.0	4.4
ABT 99-4-721	3.0	5.5
LINN	2.8	2.0
YATSU GREEN	2.8	3.3
PIZZAZZ	2.5	6.0
CALYPSO II	2.5	5.4
SRX 4500	2.3	5.4
AFFINITY	2.0	3.9
EDGE	2.0	4.1
<b>LSD (0.05)</b>	<b>2.4</b>	<b>0.8</b>



Table 7. 2001 mean red thread ratings for entries in a perennial ryegrass turf trial seeded fall of 1999 near Hubbard, OR. (9 = no disease)

*200200003*

Entry	22 Jan	1 Feb	Mean
PST-2CRL	6.7	7.3	7.0
ABT-724	6.7	7.3	7.0
CIS-PR69	6.7	7.0	6.8
PST-3BKM	6.3	7.3	6.8
PST-2BR	6.7	6.7	6.7
CIS-PR78	6.3	7.0	6.7
Barlenium	6.0	6.7	6.3
2A6E x Brightstar II	6.0	6.7	6.3
Alliance	6.0	6.7	6.3
2PC Bulk	5.7	7.0	6.3
Brightstar II x 2A6E	5.7	7.0	6.3
PST-2M4	5.7	7.0	6.3
ABT-834	5.7	7.0	6.3
2QTL Bulk	5.7	6.7	6.2
SRX-4520	5.7	6.7	6.2
Pace	6.0	6.3	6.2
Calypso II	6.0	6.3	6.2
Edge	5.7	6.7	6.2
<b>Quick Trans</b>	<b>5.7</b>	<b>6.3</b>	<b>6.0</b>
PST-2A6B	5.7	6.3	6.0
PST-CATS	5.3	6.3	5.8
Yatsu Green	5.3	6.3	5.8
PST-2JH	5.3	6.3	5.8
PST-22L	5.0	6.7	5.8
ABT-960	5.7	6.0	5.8
Prizm-99 x LRF	5.7	6.0	5.8
PST-2SLX	5.3	6.3	5.8
Brighstar II	5.3	6.0	5.7
Promise	5.3	6.0	5.7
Premier II	4.7	6.7	5.7
ABT-753	5.3	6.0	5.7
ABT-903	5.0	6.3	5.7
PST-2SBE	4.7	6.7	5.7
ABT-721	5.3	6.0	5.7
Palmer III x Saturn II	5.3	6.0	5.7
PST-2RT	5.3	6.0	5.7
LRF x Prizm	5.7	5.7	5.7
Rhapsody	5.3	6.0	5.7
PST-2WN	5.0	6.0	5.5
Shining Star	5.3	5.7	5.5
Omega II	5.0	6.0	5.5
PST-22M	5.3	5.7	5.5
2CUL Bulk	5.0	6.0	5.5
Pick 1-94	5.0	6.0	5.5
SRX-4801	5.0	6.0	5.5
Pizzazz	5.3	5.7	5.5
PST-2CT	5.0	6.0	5.5
PST-22E	5.0	5.7	5.3
Quickstart	5.3	5.3	5.3
PST-2LA	5.0	5.7	5.3
SRX-4500	5.3	5.3	5.3
057 Mt. View	5.0	5.7	5.3
Pirouette	4.7	6.0	5.3
Palmer III	5.3	5.3	5.3
Paragon	4.7	6.0	5.3
3PT Bulk	4.3	6.3	5.3
CIS-PR84	4.7	6.0	5.3
SRX-4120	4.7	6.0	5.3
B-2	5.0	5.7	5.3
PST-2L96	5.3	5.3	5.3

Table 7. 2001 mean red thread ratings for entries in a perennial ryegrass turf trial seeded fall of 1999 near Hubbard, OR. (9 = no disease) [Cont'd]

*200200003*

Entry	22 Jan	1 Feb	Mean
Charger II	5.0	5.7	5.3
SRX-4RHT	5.0	5.7	5.3
Pearl	4.3	6.0	5.2
CIS-PR85	5.0	5.3	5.2
ABT-633	4.0	6.3	5.2
2SLW	4.7	5.7	5.2
Headstart	5.0	5.3	5.2
PST-2CRR	4.3	6.0	5.2
PST-2R7	4.7	5.7	5.2
PST-2HCR	5.0	5.3	5.2
CIS-PR75	5.0	5.3	5.2
ABT-629	4.3	6.0	5.2
Racer	4.7	5.7	5.2
R8000	5.0	5.3	5.2
Buccaneer	5.0	5.3	5.2
2TN-98 Bulk	4.3	6.0	5.2
Manhattan III	4.7	5.7	5.2
CIS-PR80	4.7	5.3	5.0
Catalina	4.7	5.3	5.0
Brightstar	4.0	6.0	5.0
Sunrye	5.0	5.0	5.0
ABT-709	4.7	5.3	5.0
PST-2R4	4.0	6.0	5.0
PST-21N	4.7	5.3	5.0
Linn	4.0	6.0	5.0
PST-216C	4.7	5.0	4.8
PST-2GT	4.0	5.7	4.8
Allsport	4.7	5.0	4.8
ABT-461	4.0	5.7	4.8
PST-216R	4.7	5.0	4.8
Wilmington	4.3	5.0	4.7
Premier	4.3	5.0	4.7
Charger	4.3	5.0	4.7
Divine	4.3	5.0	4.7
Prizm x LRF	4.7	4.7	4.7
Chaparral	4.3	5.0	4.7
Citation III	3.7	5.3	4.5
Passport	4.3	4.7	4.5
Navajo	4.0	5.0	4.5
Chaparral E-	4.3	4.7	4.5
Linedrive	4.0	5.0	4.5
30G	2.3	6.3	4.3
AG-P981	4.3	4.3	4.3
Saturn II x Palmer III	4.0	4.7	4.3
Majesty	3.3	5.0	4.2
Ascend	3.7	4.7	4.2
Affinity	4.0	4.3	4.2
MP 107	4.3	4.0	4.2
PST-2R4B	3.7	4.7	4.2
2QV Bulk	4.0	4.3	4.2
Evita	4.0	4.0	4.0
2MCB Bulk	4.0	4.0	4.0
Saturn II	3.7	4.3	4.0
Fiesta 3	3.3	3.7	3.5
MP 103	3.0	4.0	3.5
<b>LSD (0.05)</b>	<b>1.6</b>	<b>2.0</b>	<b>1.7</b>

Table 8. 1999 mean leaf spot, crown rust, and turf quality ratings for entries in a perennial ryegrass turf trial seeded fall of 1998 near Hubbard, OR. (9 = no disease; ideal quality)

<u>Entry</u>	<u>Leaf Spot</u>	<u>Crown Rust</u>	<u>Turf Quality</u>
2UF Bulk	5.3	6.7	6.6
2VL Bulk	6.0	8.0	6.6
2A6E Bulk	5.3	8.0	6.5
2L96 Bulk	5.3	6.0	6.4
Syn 2CRL	6.0	6.7	6.4
Syn 2BR	6.7	7.0	6.3
2M4 Bulk	5.7	6.0	6.0
Brightstar II	4.3	5.7	6.0
2LTC Bulk	4.3	6.7	6.0
2CLS Bulk	4.3	6.3	5.9
2SLX-98 Bulk	5.0	6.3	5.9
Catalina	4.3	7.0	5.9
Syn 2CL-98	4.7	7.3	5.8
Repell III	5.0	5.7	5.8
PST-2LA	5.0	6.7	5.8
Premier II	5.3	5.3	5.7
Syn 2SBL	5.0	4.7	5.7
Calypso II	5.7	5.0	5.6
Charger II	4.3	7.3	5.6
Syn 2BM	5.3	5.3	5.6
Prelude III	4.3	5.0	5.4
<b>Quick Trans (Syn 3BK)</b>	<b>6.0</b>	<b>7.7</b>	<b>5.4</b>
Panther	4.3	5.7	5.4
Chaparral	4.0	4.7	5.4
Palmer III	4.0	4.7	5.4
Syn 2SBE	4.7	5.7	5.4
Imagine	4.0	5.7	5.3
Manhattan 3	4.0	5.3	5.2
Syn 2MCR	5.0	5.7	5.2
PST-210 Early	4.3	6.0	5.2
PST-2KSB	4.3	7.3	5.2
Sonata	3.7	7.0	5.2
Brightstar	3.7	3.3	5.1
Syn 2CRY	5.0	6.3	5.1
Omega 3	4.0	6.7	5.1
Citation III	3.7	5.0	5.1
PST-2KS	5.3	6.0	5.1
Elf	4.7	5.7	5.1
Saturn II	4.0	4.7	5.0
PST-210 Medium	4.3	4.7	5.0
PST-2AH Endo	4.3	6.7	5.0
Caddieshack	4.3	3.0	5.0
2R4-98 Bulk	2.7	6.7	5.0
Passport	4.3	4.7	5.0
Syn 2SSD	5.0	5.7	5.0

Table 8. 1999 mean leaf spot, crown rust, and turf quality ratings for entries in a perennial ryegrass turf trial seeded fall of 1998 near Hubbard, OR. (9 = no disease; ideal quality) [Cont'd]

<u>Entry</u>	<u>Leaf Spot</u>	<u>Crown Rust</u>	<u>Turf Quality</u>
Shining Star	5.7	4.7	4.9
Roadrunner	4.7	5.0	4.9
Syn 2TN-98	5.0	6.0	4.9
Blackhawk	4.7	4.7	4.9
Quickstart	4.7	4.0	4.9
Penguin	4.7	3.7	4.8
Syn 28E	5.7	5.3	4.8
PST-2R4-98	3.3	7.0	4.8
SR 4400	5.3	4.0	4.8
Cutter	5.3	5.0	4.8
Prizm	3.7	2.7	4.8
Charger	4.0	5.7	4.7
Gettysburg	4.3	4.0	4.7
SR 4100	6.3	3.3	4.7
Patriot	5.7	5.0	4.6
Elka	5.0	6.0	4.6
Mardi Gras	4.3	4.7	4.6
PST-2CB	5.3	4.7	4.6
Yorktown III	4.3	4.0	4.6
Morning Star	4.0	3.7	4.6
Allaire II	4.7	4.3	4.6
Tophat	4.3	3.7	4.6
Nighthawk	5.3	4.7	4.6
Omni	5.0	3.3	4.6
Seville	5.0	4.7	4.6
Edge	4.7	3.7	4.5
Divine	4.0	4.3	4.5
Aquarius II	4.7	5.0	4.5
PST-2LSW	5.0	3.7	4.5
Secretariat	5.0	3.7	4.5
Rodeo II	5.0	4.0	4.4
SR 4000	4.0	4.0	4.4
246	4.0	2.3	4.2
Express	4.3	3.3	4.2
Dasher II	4.7	3.3	4.1
LP 25487	3.7	6.0	3.8
Pennfine	4.3	2.7	3.8
Stallion Select	4.0	4.7	3.4
Pennant	4.3	2.3	3.1
PST-3CNR Intermediate Ryegrass	4.7	6.0	2.2
<b>LSD (0.05)</b>	<b>1.5</b>	<b>1.6</b>	<b>0.6</b>

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 652a) and the Paperwork Reduction Act (PRA) of 1995.

EXHIBIT E  
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S)  <b>Pure Seed Testing, Inc.</b>	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER  <b>PST-3BK</b>	3. VARIETY NAME  <b>Quick Trans</b>
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) <b>P.O. Box 449 Hubbard, OR 97032</b>	5. TELEPHONE (include area code) <b>(503) 651-2130</b>	6. FAX (include area code) <b>(503) 263-0703</b>
7. PVPO NUMBER <b>200200003</b>		

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. ☒ YES ☐ NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company?

If no, give name of country ☒ YES ☐ NO

10. Is the applicant the original breeder? If no, please answer the following:

☒ YES ☐ NO

a. If original rights to variety were owned by individual(s):

Is (are) the original breeder(s) a U.S. national(s)? If no, give name of country

b. If original rights to variety were owned by a company:

☒ YES ☐ NO

Is the original breeder(s) U.S. based company? If no, give name of country

11. Additional explanation on ownership (If needed, use reverse for extra space):

PLEASE NOTE:

Plant variety protection can be afforded only to owners (now licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

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